Radio Shack #64-025 #64-026

MATERIAL SAFETY DATA SHEET

REV.101 NO. 0022

MULTICORE SOLDERS, INC.

DATE PREPARED: APRIL 2,1990

1751 JAY ELL DR., RICHARDSON, TEXAS 75081 EMERGENCY/INFORMATION: 214-238-1224

N.F.P.A. / HEALTH: 3 FIRE: 0 REACTIVITY: 0

PREPARER: ROBERT L. GILBERT/QUALITY CONTROL MANAGER

IDENTITY: (THIS MSDS COVERS ALL OF THE FOLLOWING PRODUCTS): SOLDER

Sn96 (Sn96Ag04) WRAP2 Sn96 (Sn96Ag04) WRAP 3
Sn96 (Sn96Ag04) WRMAP2 Sn96 (Sn96Ag04) WRMAP3

SECTION I (HAZARDOUS INGREDIENTS / IDENTITY INFORMATION) (N/A - NOT APPLICABLE)

HAZARDOUS COMPONENTS	CAS. NUMBER	OSHA PEL	ACGIH TLV	SARA 313 PERCENT
TIN	7440-31-5	2.0 mg/M^3	2.0 mg/M^3	93-96
SILVER	7440-22-4	0.01 mg/M^3	0.1 mg/M^3	3-4
*ROSIN	8050-09-7	NOT LISTED	N/A	2-3

*ROSIN MAY DECOMPOSE DURING SOLDERING TO EMIT FORMALDEHYDE (TLV=0.1 mg/M) OR TURPENTINE (TLV=100PPM).

SECTION II (PHYSICAL/CHEMICAL CHARACTERISTICS)

BOILING POINT: N/A SPECIFIC GRAVITY (WATER=1): @ 25 °C 8

VAPOR PRESSURE(mm Hg.) N/A MELTING POINT: 221 °C
VAPOR DENSITY(AIR=1): N/A EVAPORATION RATE (BUTYL ACETATE)=1) N/A
APPEARANCE AND ODOR: GRAY METAL WITH NEUTRAL ODOR.
SOLUBILITY IN WATER: INSOLUBLE

SECTION III (FIRE AND EXPLOSION HAZARD DATA)

FLASH POINT (METHOD USED): N/A FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES: USE FULL BODY PROTECTIVE CLOTHING AND FULL FACE PIECE, SELF-CONTAINED BREATHING APPARATUS OPERATED IN A POSITIVE-PRESSURE MODE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DO NOT USE WATER ON FIRES WHERE MOLTEN METAL IS PRESENT. HIGH TEMPERATURES MAY PRODUCE HEAVY METAL FUMES, DUST AND/OR VAPOR.

SECTION IV (REACTIVITY DATA)

STABILITY: UNSTABLE? NO STABLE? YES

CONDITIONS TO AVOID: NONE KNOWN

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: HIGH TEMPERATURES MAY PRODUCE HEAVY METAL FUMES, DUST AND/OR VAPORS.

HAZARDOUS POLYMERIZATION: MAY OCCUR? NO WILL NOT OCCUR? YES

CONDITIONS TO AVOID: NONE KNOWN

SECTION V (HEALTH HAZARD DATA) No. 0022

ROUTE(S) OF ENTRY: INHALATION? YES SKIN? NO INGESTION? YES OTHER: NONE

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: IRRITATION TO THE EYES, SKIN, AND RESPIRATORY SYSTEM.
CHRONIC: BENIGN PNEUMOCONIOSIS.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO OTHER: NONE
FORMALDEHYDE FORMED DURING THE DECOMPOSITION OF ROSIN FLUX IS LISTED AS A SUSPECTED HUMAN CARCINOGEN BY ACGIH.

SIGNS AND SYMPTOMS OF EXPOSURE:
DUST, VAPOR AND/OR FUMES MAY BE IRRITATING TO SKIN, EYES, AND RESPIRATORY SYSTEM.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
ROSIN IS AN ALLERGEN.

EMERGENCY AND FIRST AID PROCEDURES:
EYES: FLUSH WITH COPIOUS QUANTITIES OF WATER. GET IMMEDIATE MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INHALATION: REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION IF EXPERIENCING EFFECT OF OVEREXPOSURE. INGESTION: GET IMMEDIATE MEDICAL ATTENTION.

SECTION VI (PRECAUTIONS FOR SAFE HANDLING AND USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
PARTICULATE MATTER SHOULD BE STORED IN DRY CONTAINERS FOR LATER DISPOSAL. DUST MATERIAL SHOULD BE VACUUMED OR WET SWEPT. DO NOT USE COMPRESSED AIR OR DRY SWEEPING AS A MEANS OF CLEANING.

WASTE DISPOSAL METHOD:
DISPOSE OF AS SCRAP METAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
WASH HANDS WITH SOAP AND WATER AFTER HANDLING SOLDER. STORE IN DRY AREA. AVOID SKIN CONTACT. AVOID BREATHING SMOKE DURING SOLDERING.

OTHER PRECAUTIONS: NONE KNOWN

SECTION VII (CONTROL MEASURES)

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE NORMALLY NEEDED.

VENTILATION: LOCAL EXHAUST: REMOVE SMOKE FROM BREATHING AREA SPECIAL: NONE NEEDED
MECHANICAL (GENERAL): ADEQUATE OTHER: NONE NEEDED

PROTECTIVE GLOVES: IMPERVIOUS EYE PROTECTION: FACE SHIELD OR SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
PERSONAL CLOTHING AND SHOES SHOULD BE PROTECTED FROM CONTAMINATION. EYE WASH STATION.

WORK/HYGIENIC PRACTICES:
DO NOT EAT, DRINK OR SMOKE IN WORK AREAS. WASH HANDS THOROUGHLY BEFORE EATING OR SMOKING.